

**WPI**

- TI - Electric physiological characteristics measuring apparatus - comprises optical microscope section, glass micro-pipette electrode radiating evanescent light through its' fine tip hole, near-field scanning optical microscope, etc.
- AB - J09211010 The electric physiological characteristics measuring apparatus comprises an optical microscope section (100) to observe the wide range image of the sample (900), a glass micro-pipette electrode (200) radiating evanescent light through its' fine tip hole, a near-field scanning optical microscope (300) to observe local image of the sample (900), an electrode height setting section (400) to set tip of the glass micro-pipette electrode (200) at a distance of up to 200 nm from surface of the sample (900), a patch clamp measuring section (500), and an analysis and control section (600).
- USE - To provide the electric physiological characteristics measuring appts., resulting high positional resolution with simple structure.

- (Dwg. 1/6)

PN - JP9211010 A 970815 DW9743 G01N37/00 008pp

PR - JP960020125 960206

PA - (BUNS-N) BUNSHI BIOHOTONICS KENKYUSHO KK

MC - J04-C02

- S03-E03 S03-E04R S03-E14H

DC - J04 S03

IC - G01N27/416 ;G01N33/48 ;G01N33/483 ;G01N37/00

AN - 97-461040 [43]

**PAJ**

- TI - ELECTROPHYSIOLOGICAL CHARACTERISTIC MEASURING DEVICE
- AB - PROBLEM TO BE SOLVED: To enable microscopic observation or the measurement of electrophysiological characteristics with high position resolving power by integrally analyzing local image data obtained by a scanning type proximity field optical microscope part and electrophysiological characteristic data obtained by a patch clamp measuring part.
- SOLUTION: An optical microscope part 100 observes the wide area image of a sample 900. Then, the local image of the sample 900 is observed by a scanning type proximity field optical microscope part 300 while the sample is scanned by a glass micropipette electrode outputting evanescent light from the fine aperture of the leading end thereof. An electrode height setting part 400 sets the leading end of a glass micropipette electrode 200 to the distance within 200mm from the surface of the sample 900 and a current is led out through the glass micropipette electrode 200 by a patch clamp measuring part 500 to be recorded. These phycological data are collected and analyzed to be recorded and the whole of the apparatus is controlled by an analysis control part 600.

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ABD - 971225

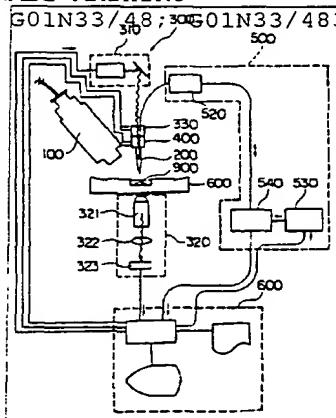
ABV - 097012

AP - JP960020125 960206

PA - BUNSHI BIO PHOTONICS KENKYUSHO:KK

IN - OKUYAMA YOSHIMASA; WATANABE AKIHIKO

I - G01N37/00; G01N27/416; G01N33/48; G01N33/483



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